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SEQUENCE LISTING

Asn Thr Pro Val Gly Thr Asn Met Ser Tyr Glu Val Glu Ser Lys Lys

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Gln Ile Thr Glu	Lys Cys Lys	Asp Leu Gln Tyr	Ser Leu Asn Ser Leu
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Phe His Gln Met Pro Lys Glu Tyr Ser Gln Met Leu Gln Leu His Met

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Glu Thr Ala

398

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Cys Lys Asn Leu Gln Tyr Gly Ile Glu Ser Phe Ser Asn Lys Thr Lys

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Phe His Gln Met Pr	o Lys Glu Tyr Ser	Gln Ile Leu Gln Leu His Met	
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Led Led Led Led Al			
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Arg Arg Leu Leu Pro Val Gln Gly Lys Gln Arg Ala Ile Met Gly Ala

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Pro	Arg	Ala	His	Pro	Ala	Gly	Ser	Phe	His	Ala	Gly	Pro	Gly	Asp	Leu
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Gly	Ala	Phe	Pro	Ala	Ala	Gln	Val	Gln	Arg	Arg	Arg	Val	Lys	Lys	Arg
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Leu	Cys	His	Tyr.	His	Glu	Leu	Tyr	Tyr	Asp	Ala	Ala	Cys	Thr	Leu	Gly
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Ala	Tyr	His	Pro	Leu	Leu	Tyr	Glu	Lys	Leu	Leu	Val	Gln	Arg	Leu	Asn

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gca cat gag ccc tcc ccg cct ggg ggc ctg gac gca cgc cag gcg ctg

Ala His Glu Pro Ser Pro Pro Gly Gly Leu Asp Ala Arg Gln Ala Leu

60

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Gln	Lys	Trp	Ala	Gln	Ser	Gln	Asp	Gly	Phe	Glu	His	Lys	Glu	Phe	Phe	
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Asp	Asp	Tyr	Phe	Phe	Ala	Ala	Gly	Gln	Pro	Gly	Trp	His	Ser	His	Thr	
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Gly	Ala	Phe	Pro	Ala	Ala	Gln	Val	Gln	Arg	Arg	Arg	Val	Lys	Lys	Arg	
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His	Arg	Arg	Gln	Arg	Arg	Ser	His	Val	Leu	Glu	Glu	Gly	Asp	Asp	Gly	
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Lys	Arg	Glu	Ala	Gly	Leu	Ser	Arg	Ala	Gln	Leu	Leu	Cys	Gln	Leu	Arg	
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Ser	Arg	Ala	Arg	Val	Arg	Thr	Leu	Asp	Gly	Thr	Glu	Ala	Pro	Phe	Ser	
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Ala	Leu	Gly	Trp	Arg	Arg	Leu	Val	Pro	Ala	Val	Pro	Leu	Ser	Gln	Leu	
		275					280					285				
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His	Pro	Arg	Gly	Leu	Arg	Ser	Cys	Ala	Val	Val	Met	Ser	Ala	Gly	Ala	
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Ile	Leu	Asn	Ser	Ser	Leu	Gly	Glu	Glu	Ile	Asp	Ser	His	Asp	Ala	Val	
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ctc	tgg	gat	att	atc	cag	gag	aac	act	aaa	gag	aag	att	caa	cca	aac	1471
Leu	Trp	Asp	Ile	Ile	Gln	Glu	Asn	Thr	Lys	Glu	Lys	Ile	Gln	Pro	Asn	
			420					425					430			
cca	cca	tct	tct	ggt	ttc	att	gga	atc	ctc	atc	atg	atg	tcc	atg	tgc	1519
Pro	Pro	Ser	Ser	Gly	Phe	Ile	Gly	Ile	Leu	Ile	Met	Met	Ser	Met	Cys	
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Arg	Glu	Val	His	Val	Tyr	Glu	Tyr	Ile	Pro	Ser	Val	Arg	Gln	Thr	Glu	
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Leu	Cys	His	Tyr	His	Glu	Leu	Tyr	Tyr	Asp	Ala	Ala	Cys	Thr	Leu	Gly	
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Ala	Tyr	His	Pro	Leu	Leu	Tyr	Glu	Lys	Leu	Leu	Val	Gln	Arg	Leu	Asn	
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atg	ggc	acg	cag	ggg	gat	ttg	cat	cgc	aag	ggc	aag	gtg	gtt	ctt	cct	1711
Met	Glv	Thr	Gln	Glv	Asn	Len	His	Ara	Ive	Gl v	Ive	Val	Val	Len	Pro	

500)	505		510
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Gly Phe Gln Ala	a Val His Cys	s Pro Ala Pr	o Ser Pro Val	Ile Pro His
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Ser				
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Phe Val Trp Gly	7 Leu Leu Phe	e Leu Ala Il	e Phe Ile Tyr	Phe Thr Asn
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Ser Asn Pro Ala	a Ala Pro Met	Pro Ser Se	r Phe Ser Phe	Leu Glu Ser
35		40	45	
Arg Gly Leu Leu	ı Pro Leu Glr	Gly Lys Gl	n Arg Val Ile	Met Gly Ala
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Leu Gln Glu Pro) Ser Leu Pro	Arg Ser Le	u Asp Ala Ser	Lys Val Leu
65	70		75	80
Leu Asp Ser His				Gly Asp Pro
	85	9	0	95
Gln Lys Trp Asp		•	e Asp Asn Gly	Asp Glu Phe
100)	105		110
Phe Thr Ser Glr	ı Val Gly Arg			Tyr Pro Glu
115		120	125	
Glu Asp Ser Tyr	· Phe Phe Val	Ala Asp Gl	n Pro Glu Leu	Tyr His His

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Ser	Gly	Pro	Val	Gln	Pro	Lys	Gln	Lys	Leu	Leu	His	Pro	Arg	Arg	Gly
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Ser	Leu	Pro	Glu	Glu	Ala	Tyr	Asp	Ser	Asp	Met	Leu	Ser	Ala	Ser	Met
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Ala	Pro	Thr	Arg	Gly	Tyr	Glu	Lys	Asp	Val	Gly	Asn	Lys	Thr	Thr	Val
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Asp Ser Ala Leu Tyr Lys Asp Val Ile Leu Val Ala Trp Asp Pro Ala Pro Tyr Ser Ala Asn Leu Asn Leu Trp Tyr Lys Lys Pro Asp Tyr Asn Leu Phe Thr Pro Tyr Ile Gln His Arg Arg Lys Tyr Pro Thr Gln Pro Phe Tyr Ile Leu His Pro Lys Phe Ile Trp Gln Leu Trp Asp Ile Ile Gln Glu Asn Thr Arg Glu Lys Ile Gln Pro Asn Pro Pro Ser Ser Gly Phe Ile Gly Ile Leu Ile Met Met Ser Met Cys Lys Glu Val His Val Tyr Glu Tyr Ile Pro Ser Val Arg Gln Thr Glu Leu Cys His Tyr His Glu Leu Tyr Tyr Asp Ala Ala Cys Thr Leu Gly Ala Tyr His Pro Leu Leu Tyr Glu Lys Leu Leu Val Gln Arg Leu Asn Thr Gly Thr Gln Ala Asp Leu His His Lys Gly Lys Val Val Leu Pro Gly Phe Gln Thr Leu Arg Cys Pro Val Thr Ser Pro Asn Asn Thr His Ser

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<211> 1611

<212> DNA

<213> Mouse

<400> 8

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Phe	Val	Trp	Gly	Leu	Leu	Phe	Leu	Ala	Ile	Phe	Ile	Tyr	Phe	Thr	Asr	ı	
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Ser	Asn	Pro	Ala	Ala	Pro	Met	Pro	Ser	Ser	Phe	Ser	Phe	Leu	Glu	Ser	-	
		35					40					45	;				
cgt	ggg	ctc	ctg	cct	cta	cag	ggc	aag	cag	cgg	gto	ato	atg	ggc	gct	;	194
Arg	Gly	Leu	Leu	Pro	Leu	Gln	Gly	Lys	Gln	Arg	Val	Ile	Met	Gly	Ala	ì	
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Leu	Gln	Glu	Pro	Ser	Leu	Pro	Arg	Ser	Leu	Asp	Ala	Ser	Lys	Val	Leu	l	
65					70					75					80)	
ctg	gac	agc	cac	cct	gag	aac	cct	ttc	cac	cct	tgg	cct	ggg	gac	cca	29	90
Leu	Asp	Ser	His	Pro	Glu	Asn	Pro	Phe	His	Pro	Trp	Pro	Gly	Asp	Pro)	
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cag	aaa	tgg	gat	cag	gcc	cca	aat	ggc	ttt	gac	aat	ggg	gat	gag	ttt	33	38
Gln	Lys	Trp	Asp	Gln	Ala	Pro	Asn	Gly	Phe	Asp	Asn	Gly	Asp	Glu	Phe	•	
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Phe	Thr	Ser	Gln	Val	Gly	Arg	Lys	Ser	Gln	Ser	Ala	Phe	Tyr	Pro	Glu	l	
		115					120					125					
gaa	gat	agc	tat	ttt	ttt	gtt	gcg	gat	cag	cct	gag	ttg	tac	cac	cac	43	34
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Ala	Pro	Thr	Arg	Gly	Tyr	Glu	Lys	Asp	Val	Gly	Asn	Lys	Thr	Thr	Val	
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cgc	atc	att	aat	tct	cag	att	ctg	gcc	aac	ccc	agc	cat	cac	ttc	att	1058
Arg	Ile	Ile	Asn	Ser	Gln	Ile	Leu	Ala	Asn	Pro	Ser	His	His	Phe	Ile	
			340					345			•		350			
gac	agt	gct	tta	tat	aaa	gat	gtt	atc	ctg	gta	gcc	tgg	gat	cct	gct	1106
Asp	Ser	Ala	Leu	Tyr	Lys	Asp	Val	Ile	Leu	Val	Ala	Trp	Asp	Pro	Ala	
		355					360					365				
cct	tat	tct	gcc	aat	ctt	aac	ctg	tgg	tat	aag	aag	cca	gat	tac	aac	1154
Pro	Tyr	Ser	Ala	Asn	Leu	Asn	Leu	Trp	Tyr	Lys	Lys	Pro	Asp	Tyr	Asn	
	370					375					380					
ctt	ttc	act	cca	tat	atc	cag	cat	cgc	cgg	aaa	tac	ccg	act	cag	cca	1202
Leu	Phe	Thr	Pro	Tyr	Ile	G1n	His	Arg	Arg	Lys	Tyr	Pro	Thr	Gln ,	Pro	
385					390					395					400	
ttt	tac	att	ctt	cac	ccc	aag	ttc	ata	tgg	cag	ctt	tgg	gac	att	atc	1250
Phe	Tyr	Ile	Leu	His	Pro	Lys	Phe	Ile	Trp	Gln	Leu	Trp	Asp	Ile	Ile	
				405					410					415		
cag	gag	aat	aca	agg	gag	aag	ata	cag	ccc	aac	cca	cca	tct	tct	ggt	1298
Gln	Glu	Asn	Thr	Arg	Glu	Lys	Ile	Gln	Pro	Asn	Pro	Pro	Ser	Ser	Gly	
			420					425					430			

ttt att gga atc ctc atc atg atg tcc atg tgt aaa gag gtg cac gtg 1346 Phe Ile Gly Ile Leu Ile Met Met Ser Met Cys Lys Glu Val His Val 435 440 445 tat gag tac atc cca tct gtt cga cag aca gag ctt tgc cac tac cat 1394 Tyr Glu Tyr Ile Pro Ser Val Arg Gln Thr Glu Leu Cys His Tyr His 450 455 460 gag ctg tac tac gac gca gcc tgc acc ttg ggg gcc tac cac cca ctg 1442 Glu Leu Tyr Tyr Asp Ala Ala Cys Thr Leu Gly Ala Tyr His Pro Leu 465 470 475 480 ctc tat gaa aag cta ctg gtg cag cgc ctt aac aca ggc acc cag gca 1490 Leu Tyr Glu Lys Leu Leu Val Gln Arg Leu Asn Thr Gly Thr Gln Ala 485 490 495 gac ttg cat cac aag ggc aag gta gtc ttg cca ggc ttc cag acc ctt 1538 Asp Leu His His Lys Gly Lys Val Val Leu Pro Gly Phe Gln Thr Leu 500 505 510 cgg tgt cca gta acc agc ccc aac aat aca cat tct taa 1577 Arg Cys Pro Val Thr Ser Pro Asn Asn Thr His Ser 515 520 aatggaactc ttgggaactg atgtgcaata aggt 1611

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⟨211⟩ 21

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